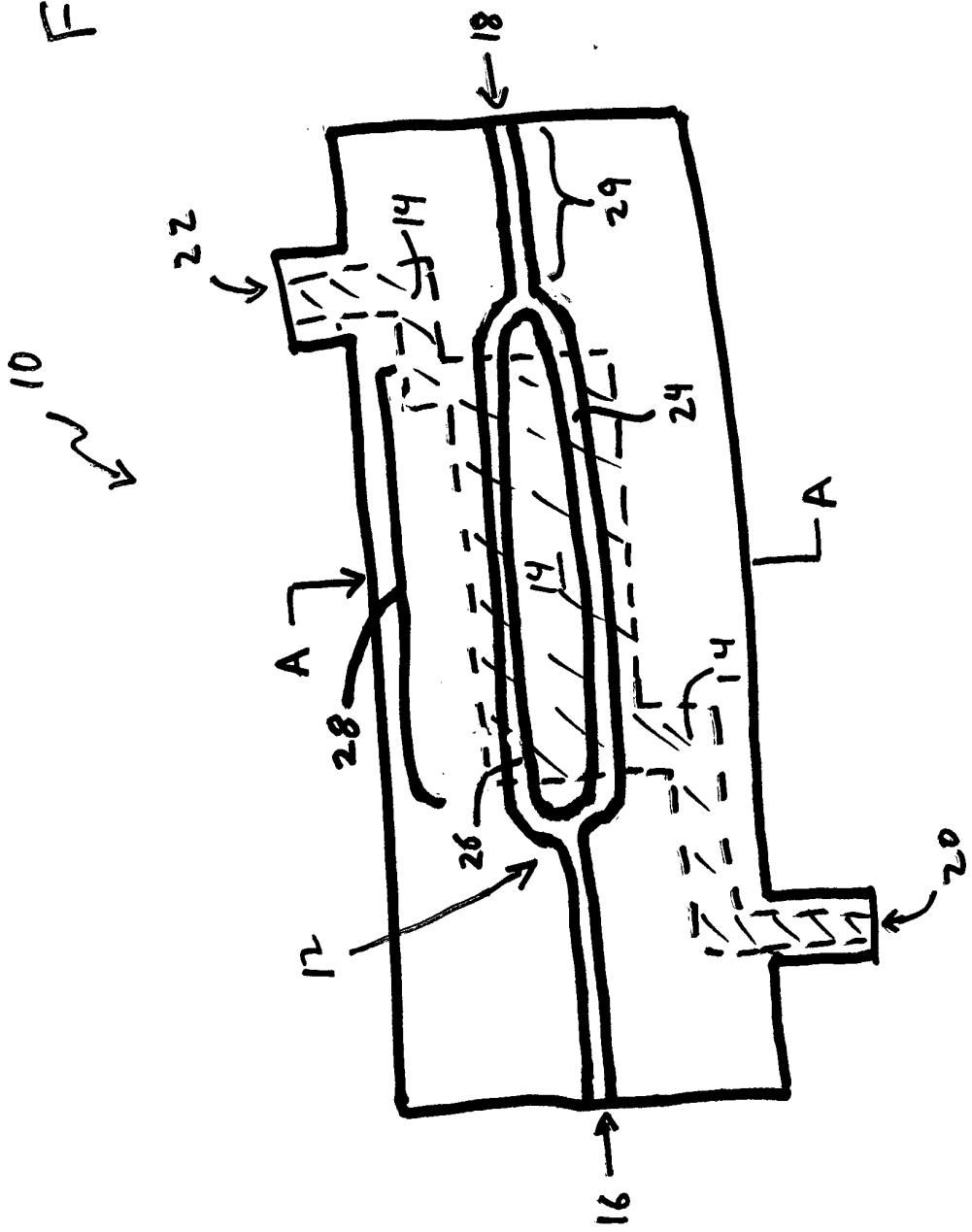


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Fig. 1



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Fig. 2

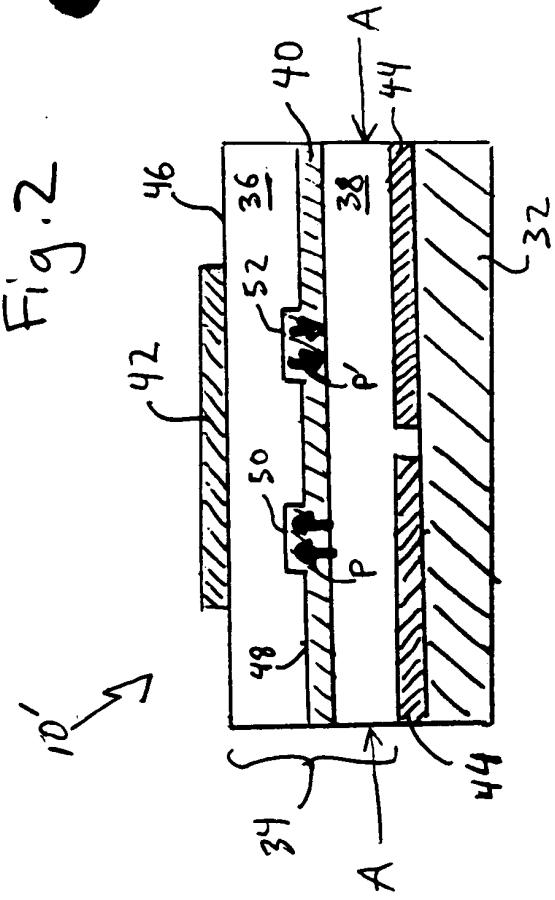
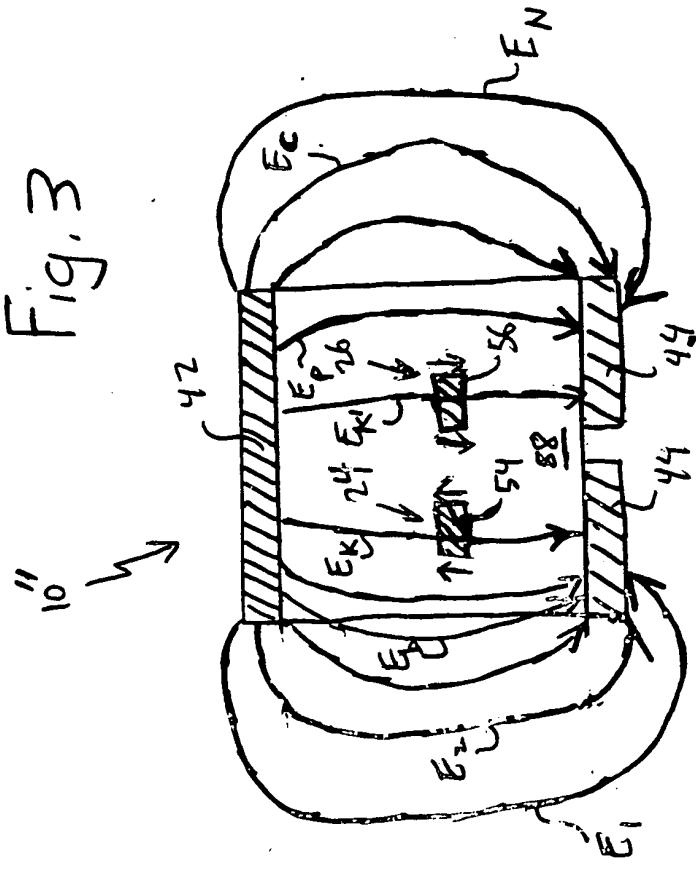


Fig. 3



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Transmitting an optical carrier wave
to an optical waveguide of a modulator

72

Transmitting a control wave to a control
waveguide to electro-optically modulate
the velocity of the optical carrier wave in
the optical waveguide, the effective re-
fractive index seen by the control wave
inside the modulator's dielectric being
larger than the effective refractive
index seen by the optical carrier wave

74

Interfering the modulated optical
carrier wave with another mutually
coherent carrier wave

76

Transmitting the interfered waves
to an output waveguide

78

70

FIG. 4

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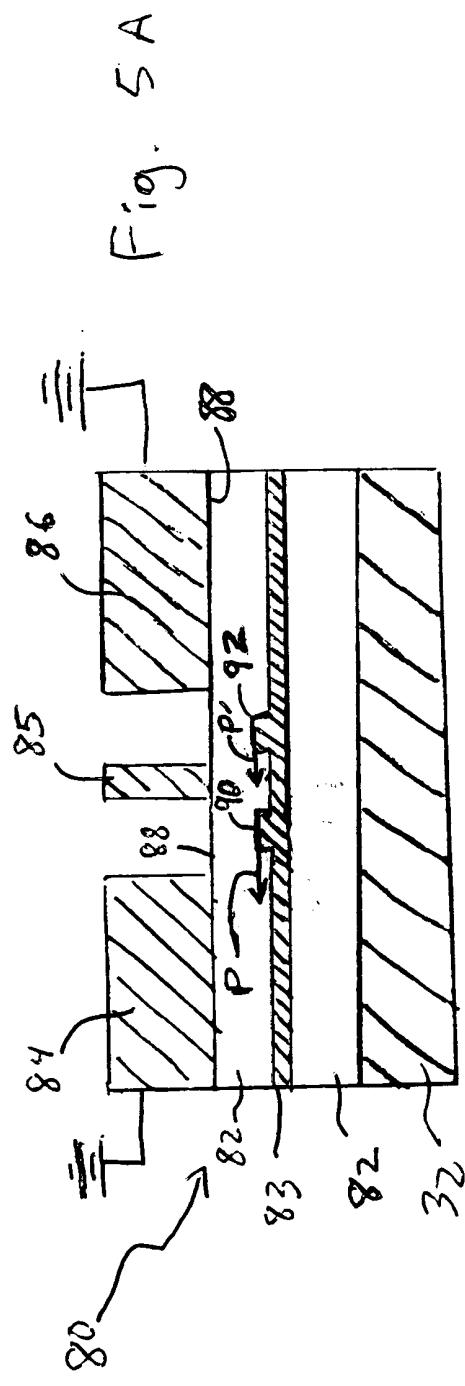
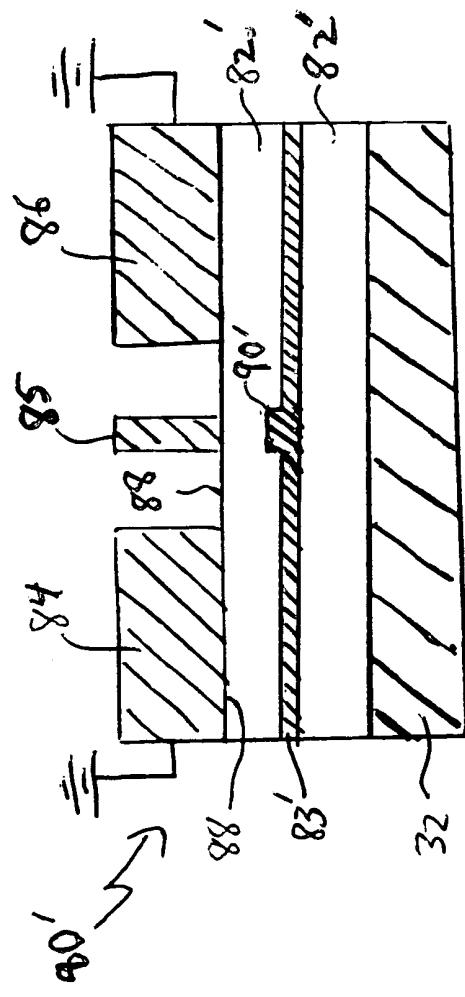


Fig. 6

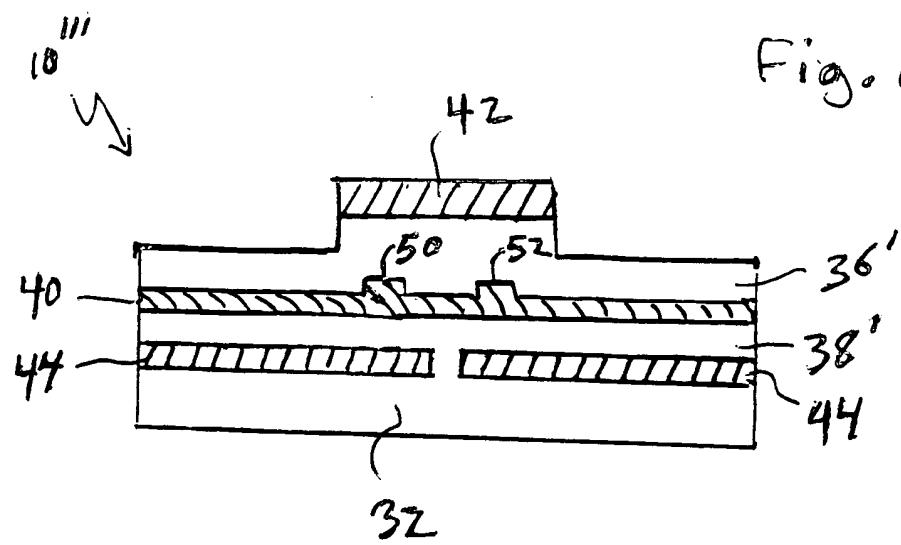
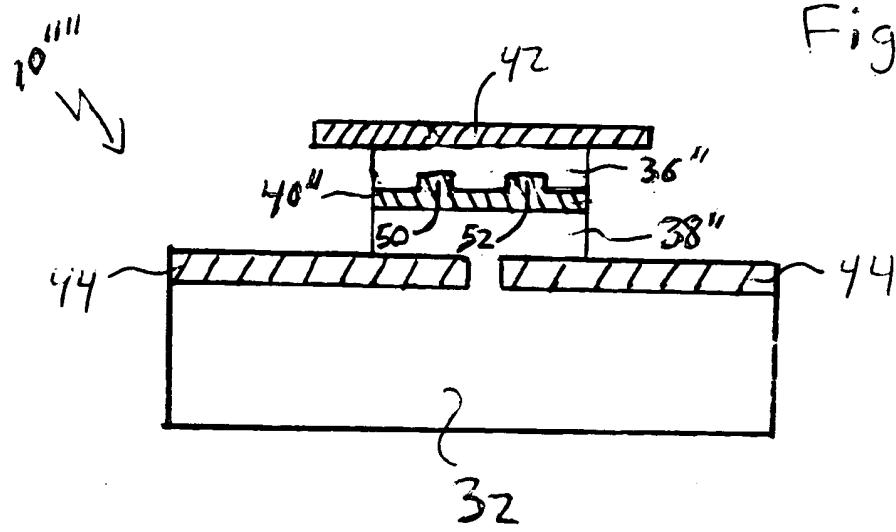


Fig. 7



10''' 32" 40" 44" 36" 38" 32"